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(54) Title: MULTI-STAGE PROSTHESIS

(57) Abstract

A porous fluoropolymer article forms an artificial internal organ, for example, a vascular bypass, vascular access, or endovascular prosthesis. PTFE having a fibrous structure of nodes, and fibers connecting the nodes together forming a wall with radial zones of differing porosity in a porous tube. In one aspect an integrated intrawall (20) circumferential support adjacent to areas of variable porosity provides enhanced tunneling and cannulation. In another aspect, the wall (1, 2) of a prosthesis has a region (a, b, c) which modulates communication through the porosity of the wall. In another embodiment a two tube (14, 16) construction is cuffed, assembled into a similarly unitized, and seamless stent.

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INTERNATIONAL SEARCH REPORT

International application No. PCT/US97/23103

A. CLASSIFICATION OF SUBJECT MATTER IPC(6) :A61F 2/02, 2/04, 2/06: A61M 29/00 US CL :623/1, 11, 12: 606/ 191, 194, 195, 198; 600/36 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) U.S. : 623/1, 11, 12; 606/ 191, 194, 195, 198; 600/36 Documentation searched other than minimum documentation to the extent that such documents are included	in the fields searched					
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) APS search terms: stent, porous, membrane, PTFE, cuff, coalesce, fluoropolymer						
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Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231 Facsimile No. (703) 305-3230 Authorized officer TRAM A. NGUYEN Telephone No. (703) 308-0804	2 Ourann					

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